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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/781,820	02/20/2004	Akira Asaoka	H64-163097M/MNN	3957	
21254 MCGINN INT	7590 04/27/2007 FLIECTIIAI PROPERTY	VIAW GROUP PLIC	EXAMINER		
MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC 8321 OLD COURTHOUSE ROAD			WALSH, RYAN D		
SUITE 200 VIENNA, VA	22182-3817		ART UNIT PAPER NUMBER		
VILINIAI, VII			2852		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	ONTHS	04/27/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

				711		
		Application No.	Applicant(s)			
Office Action Summary		10/781,820	ASAOKA ET AL.			
		Examiner	Art Unit			
•		Ryan D. Walsh	2852			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet wit	h the correspondence address			
	ORTENED STATUTORY PERIOD FOR REF	PLY IS SET TO EXPIRE 3 MG	ONTH(S) OR THIRTY (30) DA	YS.		
WHI( - Exte after - If NO - Faill Any	CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the may ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- cod will apply and will expire SIX (6) MON tute, cause the application to become ABA	CATION.  Seply be timely filed  ITHS from the mailing date of this communic  ANDONED (35 U.S.C. § 133).			
Status	·					
1) 又	Responsive to communication(s) filed on <u>06</u>	February 2007.	•			
3)□	Since this application is in condition for allow	for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.			
Disposit	ion of Claims					
4) 🖂	Claim(s) 1-20 is/are pending in the application	on.				
<i>,</i> —	4a) Of the above claim(s) is/are withd		,			
5)□	Claim(s) is/are allowed.	·				
6)⊠	Claim(s) 1-3,5-7,9,10,15-17,19 and 20 is/are	e rejected.				
7)🖂	Claim(s) <u>4,8,11-14 and 18</u> is/are objected to	· ·	•			
8)[	Claim(s) are subject to restriction and	d/or election requirement.	•			
Applicat	ion Papers					
9)[	The specification is objected to by the Exami	iner.				
10)🛛	The drawing(s) filed on 06 February 2007 is/	are: a)⊠ accepted or b)□ o	bjected to by the Examiner.			
	Applicant may not request that any objection to the	he drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	,	•			
Priority	under 35 U.S.C. § 119					
12) 又	Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. §	119(a)-(d) or (f).			
• —	⊠ All b) Some * c) None of:					
•	1. ☐ Certified copies of the priority docume	ents have been received.				
	2. Certified copies of the priority docume	ents have been received in A	oplication No			
	3. Copies of the certified copies of the pe	riority documents have been	received in this National Stage	€.		
	application from the International Bure					
* (	See the attached detailed Office action for a li	ist of the certified copies not	received.			
• • •				. •		
Attachmer	ot(s)  ce of References Cited (PTO-892)	4) Theories S	ummary (PTO-413)			
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	)/Mail Date			
	mation Disclosure Statement(s) (PTO/SB/08)	5)	formal Patent Application			

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#### **DETAILED ACTION**

### Claim Objections

Claims 11-14 are objected to because of the following informalities:

Regarding claims 11-14, the claimed, "rotatable shaft" is objected to because rotatable shaft was previously set forth that is different from the claimed "rotatable shaft" now being claimed. The rotatable shaft in claims 11-14 is ref. # 6 of applicants invention. The previous rotatable shaft is ref. # 11.

Claim 11 is also objected to for reciting a "rotatable frame". It appears as though applicant should replace "frame" with –shaft--, keeping in mind the objection of claims 11-14 set forth above.

Appropriate correction is required.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-7, 9-10, 15-17 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekino et al. (US Pat. # 5,172,175), hereinafter referred to as Sekino, in view of Conlon, Jr. (US Pat. # 4,170,175), hereinafter referred to as Conlon.

Regarding claims 1, 2, 5, 15 and 20, Sekino teaches, "A belt unit of an electrophotographic printing apparatus, comprising: two rollers (Fig. 3, ref. #'s 41 and 43) for supporting a belt (40) so as to be substantially in parallel with each other; two

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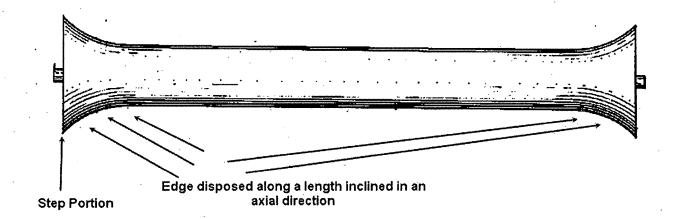
frames (46) for supporting the rollers and attached to opposite ends of one of the rollers respectively so as to be perpendicular to the rollers; two support members (52) attached to opposite ends of the other roller so as to be perpendicular to the rollers; two elastic members (Col. 7, Ln. 12-15) interposed between the two support members and the two frames respectively; and a belt mounting guide (42) provided between the two frames; wherein the belt mounting guide includes a rotating shaft disposed in parallel with the rollers, and an edge portion (edge's of the roller) disposed along a length of the rotating shaft." Sekino does not teach, "the edge portion being inclined relative to an axial direction of the rotating shaft, wherein a step portion is provided at one end of the edge portion of the belt mounting guide and in a position where the belt travels normally." However, Conlon teaches the deficiencies of Sekino (Fig. 3, and cutout below).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Sekino's invention to include the edge portion being inclined relative to an axial direction of the rotating shaft and wherein a step portion is provided at one end of the edge portion of the belt mounting guide and in a position where the belt travels normally.

The ordinary artisan would have been motivated to modify Sekino's invention in a manner described above for at least the purpose of preventing "walks" or "creeps" of the belt causing misalignment or even escape of the belt from the roller.

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Regarding claims 3, 6 and 17, Sekino teaches, "wherein when the belt is mounted, the belt mounting guide is located to be higher than a frame that forms a slot portion included in an apparatus body in which the belt unit is mounted (see Fig.'s 3 and 5, ref. # 42 is in a slot located higher than a bottom portion of the frame 46)."

Regarding claim 7, Sekino teaches, "wherein the belt mounting guide is rotatably mounted to the two frames (42 on 46 in Figure 3)."

Regarding claim 9, Sekino teaches, "wherein the belt mounting guide is disposed between the two rollers (42 is between 41 and 43)."

Regarding claim 10, Sekino teaches, "wherein the two rollers comprise a drive roller (41) and a tension roller (43)."

Regarding claim 16, Sekino teaches, "wherein the rotating shaft (42) is positionable between parallel frame members (46) of the belt unit."

Regarding claim 19, Sekino teaches, "wherein the belt mounting guide (42) is rotatable between the parallel frame members (46)."

## Allowable Subject Matter

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Claims 4, 8, 11-14, and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Note: Claims 11-14 are also objected to above.

## Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan D. Walsh whose telephone number is 571-272-2726. The examiner can normally be reached on M-F 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on 571-272-2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ryan D. Walsh Patent Examiner Art Unit 2852

DAVID M. GRAY
SUPERVISORY PATENT EXAMINER